

Docket No. 262637US3X PCT

DT05 Rec'd PTO 09 DEC 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Kentaro YAMAUCHI, et al.

SERIAL NO: New U.S. PCT Application Based on PCT/JP03/07445

GAU:

FILED: Herewith

EXAMINER:

FOR: OIL PUMP

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

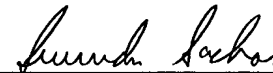
CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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STATEMENT OF RELEVANCY

- 1) References AA, AB, AO-AR have been cited in the International Search Report. Copies of these references are being submitted herewith only when not automatically provided by the International Searching Authority.
- 2) References _____ have been cited in the corresponding _____ Search Report. A copy of these references is being submitted herewith.
- 3) Reference AS is discussed in the specification. A copy of this reference is being submitted here with.
- 4) References _____ are additional prior art known to Applicant. A copy of these references is being submitted herewith.

JP 184388/1984

Japanese Unexamined Utility Model Publication No. 59-184388 discloses an internal gear pump. In this internal gear pump, a flow control valve is slidably installed at a flow control valve receiving hole in which a suction-side bypass passage connecting with a suction port opens at a peripheral surface thereof and a delivery-side bypass passage connecting with a delivery port opens at a rare edge surface thereof, and the flow control valve is pressed toward a rear edge surface side thereof by a spring to close the communication between the suction-side bypass passage and the delivery-side bypass passage.

When delivery pressure of the delivery-side bypass passage is not less than the predetermined value, the flow control valve is pressed down by the delivery pressure against spring force of the spring to communicate the suction-side bypass passage with the delivery-side bypass passage, and oil and the like at the delivery port side is returned to the suction port side. In this internal gear pump, a circular groove communicating with the suction-side bypass passage is formed between the suction-side bypass passage and the flow control valve.

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STATEMENT OF RELEVANCY

JP 90990/1987

Japanese Unexamined Utility Model Publication No. 62-90990 discloses a vane pump. The vane pump comprises a pump housing, a cam ring which is installed in the pump housing, a pair of side plates which are disposed at both sides of the cam ring and in which a suction port and a delivery port are respectively formed at the surface that is oppositely connected with the cam ring, a rotor which maintains plural vanes that is slidably connected with a cam surface of the cam ring on the circumference, a flow control valve which adjusts fluid that is delivered from the delivery port to be a certain flow amount and which bypasses extra fluid to a bypass passage that is communicated with the suction port via a cam ring outer peripheral passage. In the vane pump, a deflected portion which refracts a top end of the bypass passage to direct fluid flow toward a cam ring outer periphery is installed, and an inclined portion is installed with respect to a rotor axis line in order that the cam ring outer periphery lies at right angles to flow direction of bypass flow which is directed by the above means.

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STATEMENT OF RELEVANCY

JP 2-139386

Japanese Unexamined Utility Model Publication No. 2-139386 discloses a pump. In this pump, a suction port of a pump body is connected to a reserve tank via a suction oil passage, and due to the control of flow amount by a flow control valve, a part of operating oil from a pump delivery port is released as extra oil into a drain oil passage which connects the suction port with a pump suction room to be returned to the pump suction room. In this pump, corrosion-proof curing layer portion is formed at an inner wall of the drain oil passage.

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 262637US3X PCT		SERIAL NO. New U.S. PCT Application Based on PCT/JP03/07445	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT Kentaro YAMAUCHI, et al.			
				FILING DATE Herewith			GROUP
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	5 567 125	10/22/96	NOAH, Bruce C. et al.			
	AB	4 575 314	03/11/86	TEUBLER, Heinz et al.			
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
	AO	11-63270	03/05/99	JP (with English abstract)		NO	
	AP	184388/1984	12/07/84	JP		NO	
	AQ	96/13665	05/09/96	WO (with English abstract & equivalent of US 5800135)		NO	
	AR	90990/1987	06/10/87	JP		NO	
	AS	2-139386	11/21/90	JP		NO	
	AT						
	AU						
	AV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AW						
	AX						
	AY						
	AZ						<input type="checkbox"/> Additional References sheet(s) attached
Examiner					Date Considered		

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.